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## Introduction

Despite the controversy that continues to swirl around the negative implications of genetically modified foodstuffs, many people are unaware of the fact that ever since animals and plants have been domesticated, they have been adapted through selective breeding for human benefit. (17) The genetic engineering of organisms, which began in the early seventies, did not make much of an impact on the human psyche. It would seem that it was not until the Pusztai affair of the late nineties that people became more aware and increasingly concerned about the ethical implications of genetic modification. Since Pusztai's research went public in 1998, society began to be increasingly opposed to the new technology. (18) The implementation of GMOs into human food production systems remains highly controversial and the source of much debate to this day.

## Background

### *What are GMO's?*

As previously mentioned, GMOs are organisms that have been unnaturally modified. The sophistication of technology allows scientists to precisely replicate genes from a particular species and introduce the beneficial genome sequences into another species, modifying their DNA. (2) These genetically modified organisms are typically referred to as "transgenic" organisms, meaning the organism forms transgenes from the foreign DNA introduced into their genomes. The process is recognised by creating a temporary change (transfection) or a permanent change (transformation) within their germline. Transfection refers to the introduction of an altered gene into a eukaryotic cell for temporary use and does not create a germline change. Transformation refers to a permanent alteration, as characterized by cancerous cells that rapidly reproduce and spread throughout the body. (4)

Biotechnology is commonly used in the research of xenotransplantation, pharming, biomedics, and agricultural production. This essay will focus on the agricultural production section. In agricultural production, particularly regarding livestock, biotechnology is utilised to increase yields, strengthen immunity to infection, enhance body mass, and accelerate development. (1)

### *How are farm animals genetically modified for human purposes?*

Generally, to produce a transgenic organism, cells are extracted from an embryo, and, using electroporation, a transgenic DNA construct is transferred into the extracted stem cells. (4) Electroporation is a microbiological strategy where cells are manipulated by an electrical field for the purpose of increasing their cell membranes permeability. This allows for the DNA

# Sample Extended Essay Environmental Systems And Societies

**Chao Zhang**



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